

MISSISSIPPI BAND OF CHOCTAW INDIANS Alternative Energy Project



Department of Energy
Alternative Energy Conference
October 1, 2002
Denver, CO

Tribal Overview



- 8,900 Tribal Members (50% blood quantum)
- 50% < 18 years of age
- 35,000 acres (non-contiguous)
- 6 Elementary Schools, 2 Middle Schools & 1 Boarding High School
- Police & Fire Department
- Attorney General's Office & Tribal Supreme Court

Economic Conditions



- 8,000 full-time employees in Mississippi (\$1.2 billion impact)
- 1,100 employees in Mexico (NAFTA)
- 15 tribal companies
- Manufacturing, Digital Mapping, Printing, Tourism, etc.
- McDonald's, Ford, Chrysler, Pepsi-Co, Caterpillar, etc.
- 452 Tribal Members in college

Economic Challenges



- Create meaningful career opportunities for tribal members with college degrees
- Diversify the tribal economy
- Ensure availability of affordable and dependable infrastructure (water, sewer, electricity, telecommunications & roads)

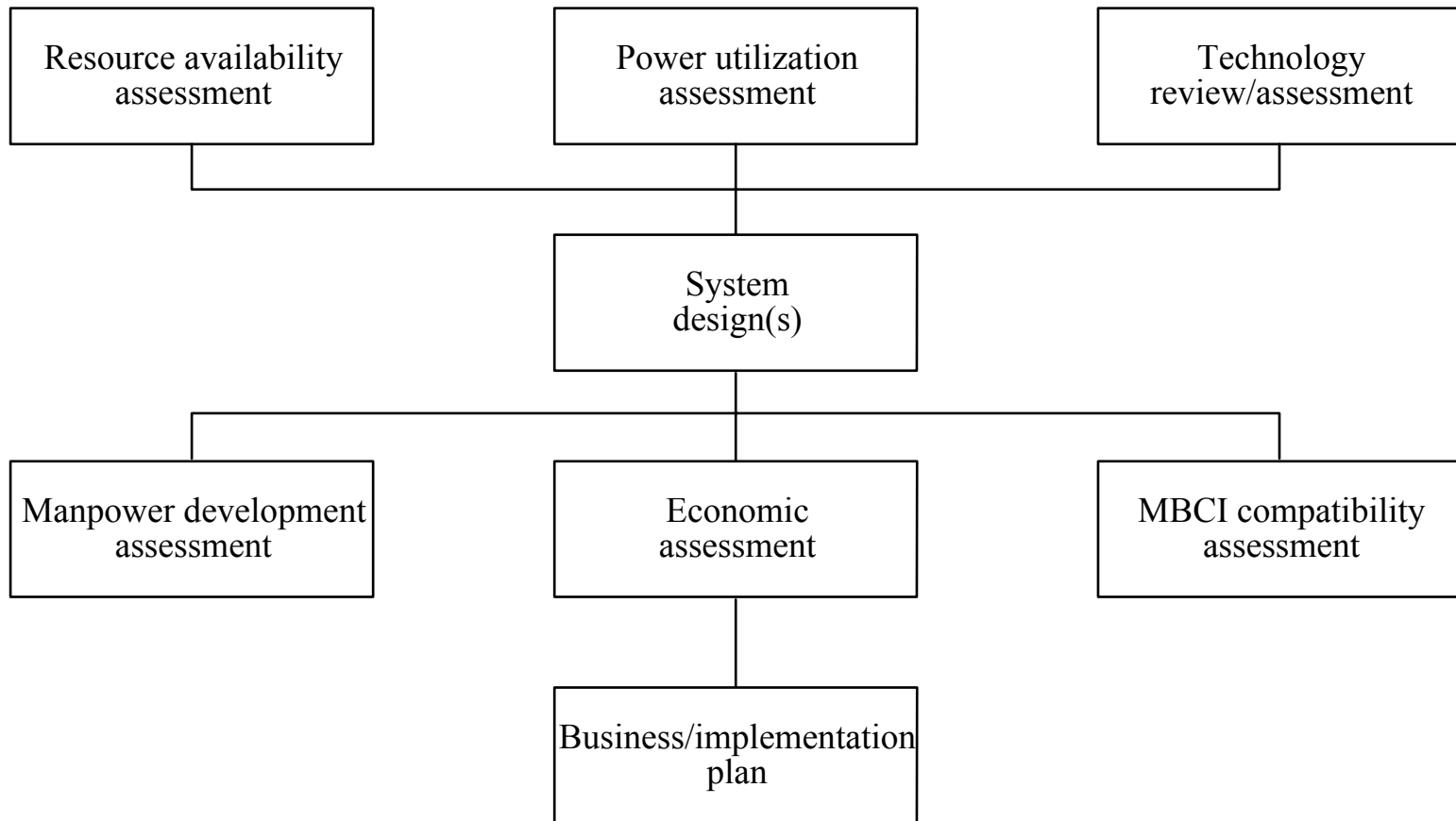
ie, Alternative Energy Project

The Team



- Mississippi Band of Choctaw Indians -- Owner
- Mississippi Alternative Energy Enterprise -- Project Manager
- Mississippi State University, Diagnostic & Instrumentation Lab -- Technical Analysis
- Mississippi State University, Food & Fiber Center -- Business Plan Analysis
- Choctaw Geo Imaging -- Digital Mapping & Spatial Data

Feasibility Study Work Elements



Technology Assessment



Source terms

Resource availability

Poultry litter

Litter + wood residues

Power utilization

Tribe

Contiguous areas

Process technologies

Power

Delmarva study

NERL input

TVA

USDA study

AEE studies

CPC

FibroWatt

Power + products

USDA study

TVA

BTI

MissChem

Evaluation criteria

Facility can be sized to process available feed

Value of output of facility >> value of input

System Design



- “Venture guidance” system design(s) will be developed for process technologies that satisfy evaluation criteria
- Design will be in sufficient detail to enable meaningful assessments of
 - Capital and operating costs
 - Manpower
 - Environmental impacts
- As much as possible, vendor-supplied information or other existing information will be used
- System design will include:
 - Feed (poultry litter, poultry litter + wood residue)
 - Energy, products, effluents
 - Process operations
 - Auxiliary support functions (e.g., transport of feed material)

Result of Study



- Business / implementation plan sufficient to support decision by MBCI on whether to proceed



THANK YOU!